AMENDMENT TO THE CLAIMS

Claims 1 - 22 (Cancelled).

Please add the following new claims:

- 23. (New) A process for the preparation of an activated support suitable for supporting a metallocene complex comprising:
 - a) providing a particulate support material comprising particles of a porous mineral oxide;
 - b) contacting said porous mineral oxide particles with a fluorinated functionalizing agent to provide functionalized support particles;
 - c) heating said functionalized support particles in an inert atmosphere and at an elevated temperature sufficient to effect pyrolys of said support particles;
 - d) subjecting the pyrolysed support particles of subparagraph c) to an oxidizing treatment in the presence of an oxygen containing gas at an elevated temperature effective to oxidize said support particles; and
 - e) recovering active fluorinated support particles after said oxidizing treatment.
- 24. (New) The method of claim 23 wherein said mineral oxide support particles are selected from the group consisting of alumina and silica particles.
 - 25. (New) The method of claim 24 wherein said support particles comprises silica.
- 26. (New) The method of claim 25 wherein said support particles are heated in subparagraph c) to a temperature in the range of 200-600° C.

- 27. (New) The method of claim 26 wherein said support particles are heated in subparagraph c) to a temperature within the range of 350-500° C.
- 28. (New) The method of claim 25 wherein said fluorinated functionalizing agent comprises a dialkyl aluminum fluoride.
- 29. (New) The method of claim 28 wherein said dialkyl aluminum fluoride is characterized by the formula

$$Al(R^1)_2F$$
 (I)

wherein the R¹ groups can be the same or different and are linear or branched alkyl groups having from 1 to 20 carbon atoms.

- 30. (New) The method of claim 29 wherein the R¹ groups are the same and are methyl, ethyl, isopropyl or linear or branched butyl groups.
- 31. (New) The method of claim 28 wherein said dialkyl aluminum fluoride is diethylaluminiumfluoride.
- 32. (New) The method of claim 25 wherein said fluorinated functionalizing agent comprises a fluoroorganoaluminum compound.

- 33. (New) The method of claim 32 wherein said fluorinating agent comprises a mixture of said fluororganoaluminum compound and co-agent selected from the group consisting of MF, MR², M'F₂, M'R²F, and M'R²₂ wherein M is a metal from group 1 of the Periodic Table, M' is a metal from group 2 of the Periodic Table and R² is an alkyl group having from 1 to 20 carbon atoms.
- 34. (New) The method of claim 32 wherein said porous mineral oxide is silica having a specific surface area within the range of 100 to 1,000 cm²/g.
- 35. (New) The method of claim 34 wherein said silica has a porosity within the range of $1 4 \text{ cm}^3/\text{g}$, a pore diameter within the range of 7.5 30 nm and an average particle size within the range of 1 100 um.
- 36. (New) An activated fluorinated support produced by the process of claim 32 comprising aluminum atoms having fluorine atoms which are directly linked to said aluminum atoms.
- 37. (New) A supported metallocene catalyst system comprising the activated support of claim 36 and a metallocene catalyst component supported on said support.

- 38. (New) The supported metallocene catalyst system of claim 37 wherein said metallocene comprises at least one cyclopentadienyl group coordinated with a transition metal from group 4 of the Periodic Table of Elements.
- 39. (New) The supported metallocene catalyst system of claim 38 further comprising an alkylating agent characterized by the formula:

$$AlR_{n}^{5}X_{3-n}$$

wherein the R⁵ groups may be the same or different and are each a substituted or unsubstituted alkyl groups containing from 1 to 12 carbon atoms, X is halogen or hydrogen and n is an integer from 1 to 3.

40. (New) The supported metallocene catalyst system of claim 39 wherein said operating agent is triethylaluminum or triisobutylaluminum.

- 41. (New) A method for preparing a supported metallocene catalyst system comprising:
 - a) providing an activated fluorinated support as defined by claim 36;
 - b) dissolving a metallocene catalyst component in an organic solvent to provide a solution to said metallocene catalyst component in said organic solvent;
 - c) impregnating said activated fluorinated support with said solution of metallocene catalyst component; and
 - d) recovering a supported catalyst system incorporating said metallocene catalyst compound and said activated fluorinated support.
- 42. (New) The method of claim 41 comprising providing an alkylating agent characterized by the formula:

$$AlR_{n}^{5}X_{3-n}$$

wherein the R⁵ groups may be the same or different and are each a substituted or unsubstituted alkyl group, containing from 1 to 12 carbon atoms, X is halogen or hydrogen and n is an integer from 1 to 3;

contacting said support with said alkylating agent either concomitantly from or separately with the contact of said support with said metallocene component.